

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	480	382/135.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/05 19:17
S2	2359	382/100.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/05 16:57
S3	1276	356/71.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/05 16:57
S4	243	340/5.86.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/05 16:57
S5	882	382/298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/05 16:57
S6	679	382/299.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/05 16:58
S7	731	382/251.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/05 16:58
S8	134	increase near (resolution (quantiz\$5 near bit)) near (pixel)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/05 17:00

EAST Search History

S9	36706	(mark\$3 watermark\$3) near detect\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/05 17:01
S10	5	S8 and S9	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/05 18:04
S11	64	progressiv\$3 with (detect\$4 sens\$4) with (\$5mark barcod\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/05 18:05
S12	625915	resolution quantization	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/05 18:05
S13	9	S11 and S12	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/05 18:05
S14	194	(coarse low adj1 resolution) with (detect\$4 sens\$4) with (\$5mark barcode)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/05 18:07
S15	668	(fine high adj1 resolution) with (detect\$4 sens\$4) with (\$5mark barcode)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/05 18:55
S16	86	S14 and S15	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/05 19:07

EAST Search History

S17	70	(coarse low adj1 resolution thumbnail) with (detect\$4 sens\$4 measure\$4 evaluat\$4 find\$4 identif\$5) adj2 (\$5mark barcode glyph)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/05 19:09
S18	130	(fast quick) with (detect\$4 sens\$4 measure\$4 evaluat\$4 find\$4 identif\$5) adj2 (\$5mark barcode glyph)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/05 19:09
S19	203	(refin\$4 updat\$4) with (detect\$4 sens\$4 measure\$4 evaluat\$4 find\$4 identif\$5) adj2 (\$5mark barcode glyph)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/05 19:13
S20	1	(coarse adj2 fine) with (detect\$4 sens\$4 measure\$4 evaluat\$4 find\$4 identif\$5) adj2 (\$5mark barcode glyph)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/05 19:13
S21	28	(low adj2 high) with (detect\$4 sens\$4 measure\$4 evaluat\$4 find\$4 identif\$5) adj2 (\$5mark barcode glyph)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/05 19:14
S22	180	(coarse adj2 fine) and (detect\$4 sens\$4 measure\$4 evaluat\$4 find\$4 identif\$5) adj2 (\$5mark barcode glyph)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/05 19:13
S23	1551	(low adj2 high) and (detect\$4 sens\$4 measure\$4 evaluat\$4 find\$4 identif\$5) adj2 (\$5mark barcode glyph)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/05 19:14
S24	49	S22 and S23	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/05 19:16

EAST Search History

S25	97903	"235".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/05 19:17
S26	54124	"358".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/05 19:17
S27	16915	"380".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/05 19:17
S28	1595	382/181.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/05 19:17
S29	361	382/101.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/05 19:17
S30	59	382/102.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/05 19:17
S31	2	"5438636".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/05 19:17

EAST Search History

S32	37	("3410991" "3833882" "4473746" "4648120" "4749879" "4797943" "4864629" "4873426" "4945496" "4958064" "4973829" "4974187" "4988852" "4992650" "5036182" "5045677" "5073954" "5073958" "5081689" "5101445" "5120940" "5142592" "5151953" "5155343" "5155344" "5227863").PN. OR ("5438636"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/05 19:18
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[File 2] **INSPEC** 1898-2007/Feb W4
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[File 6] **NTIS** 1964-2007/Mar W1
(c) 2007 NTIS, Intl Cpyrght All Rights Res. All rights reserved.

[File 8] **Ei Compendex(R)** 1884-2007/Feb W4
(c) 2007 Elsevier Eng. Info. Inc. All rights reserved.

[File 34] **SciSearch(R) Cited Ref Sci** 1990-2007/Mar W1
(c) 2007 The Thomson Corp. All rights reserved.

[File 35] **Dissertation Abs Online** 1861-2007/Feb
(c) 2007 ProQuest Info&Learning. All rights reserved.

[File 56] **Computer and Information Systems Abstracts** 1966-2007/Feb
(c) 2007 CSA. All rights reserved.

[File 57] **Electronics & Communications Abstracts** 1966-2007/Feb
(c) 2007 CSA. All rights reserved.

[File 65] **Inside Conferences** 1993-2007/Mar 07
(c) 2007 BLDSC all rts. reserv. All rights reserved.

[File 94] **JICST-EPlus** 1985-2007/Mar W2
(c)2007 Japan Science and Tech Corp(JST). All rights reserved.

**File 94: JICST will be removed from all vendors on March 31, 2007. Please contact the Knowledge Center for alternative files.*

[File 95] **TEME-Technology & Management** 1989-2007/Mar W1
(c) 2007 FIZ TECHNIK. All rights reserved.

[File 99] **Wilson Appl. Sci & Tech Abs** 1983-2007/Feb
(c) 2007 The HW Wilson Co. All rights reserved.

[File 144] **Pascal** 1973-2007/Feb W4
(c) 2007 INIST/CNRS. All rights reserved.

[File 239] **Mathsci** 1940-2007/Apr
(c) 2007 American Mathematical Society. All rights reserved.

[File 256] **TecInfoSource** 82-2007/Oct
(c) 2007 Info.Sources Inc. All rights reserved.

[File 434] **SciSearch(R) Cited Ref Sci** 1974-1989/Dec
(c) 2006 The Thomson Corp. All rights reserved.

[File 583] **Gale Group Globalbase(TM)** 1986-2002/Dec 13
(c) 2002 The Gale Group. All rights reserved.

**File 583: This file is no longer updating as of 12-13-2002.*

[File 603] **Newspaper Abstracts** 1984-1988
(c)2001 ProQuest Info&Learning. All rights reserved.
**File 603: This is a closed file.*

[File 483] **Newspaper Abs Daily** 1986-2007/Mar 09.
(c) 2007 ProQuest Info&Learning. All rights reserved.

[File 248] **PIRA** 1975-2007/Feb W2
(c) 2007 Pira International. All rights reserved.

Set	Items	Description
S1	7688852	S IMAG? OR PHOTO OR DIGITAL???()IMAG? OR PICTURE?? OR PHOTOS OR PHOTOGRAPH?? OR LOGO?? OR ICON?? OR GLYPH?? OR GRAPHIC? OR GRAPHIX OR PICTOGRAM?? OR PICTOGRAPH?? OR SYMBOL?? OR PATTERN?? OR IMAG??? OR BIT()MAP??

S2 2931588 S (WATERMARK?? OR IDENTIFIER OR SYMBOL?? OR BARCODE?? OR MARK??
 OR PATTERN?? OR NUMBER(3N)PATTERN?? OR ENCRYPT??? OR EMBED? OR INSCRI? OR
 LIGHT())ACTIVATE? OR HIDE? ? OR HIDDEN OR HIDDEN(3N)COD? OR AUTHENTICAT? OR
 IMPREGNAT???? OR STEGAN? OR ID OR IDENTIFICATION OR PASSWORD OR PASSCODE?? OR
 PASS() (WORD?? OR CODE?? OR INFORMATION OR ENCOD?)) (3N)S1
 S3 142436 S (DETECT? OR SENS? OR IDENTIFY OR IDENTIFIES OR FIND??? OR
 INDICAT? OR DETERM? OR DISCOVER??? UNCOVER??? OR ILLUMINAT?) (3N)S2
 S4 118 S ((INCREAS? OR IMPROV?) (3N) (RESOLUTION OR QUANTI?)) (20N)S3
 S5 247139 S (SET???? OR INITIAT? OR TERMINAT? OR STOP? OR HALT
 ???) (3N) (TIM??? OR COUNT??? OR ITERAT??? OR PERIOD?? OR INTERVAL?? OR PROCESS?)
 S6 1373 S (REPEAT??? OR START??? REINITIAT? OR RECUR? OR BEGIN OR
 REPETIT?) (3N)S5
 S7 1089 S AU=(MIYAKE, N? OR MIYAKE N?)
 S8 0 S S4(3N) (S5 OR S6)
 S9 0 S S4(40N) (S5 OR S6)
 S10 0 S S4 AND (S5 OR S6)
 S11 1 S (REPEAT??? OR START??? REINITIAT? OR RECUR? OR BEGIN OR
 REPETIT?) (3N)S4
 S12 1 S (REPEAT??? OR START??? REINITIAT? OR RECUR? OR BEGIN OR
 REPETIT?) (20N)S4
 S13 0 S S12 NOT S11
 S14 4 S (REPEAT??? OR START??? REINITIAT? OR RECUR? OR BEGIN OR
 REPETIT?) AND S4
 S15 3 S S14 NOT S12
 S16 1 RD (unique items)
 S17 13 S S4(3N) (TIM??? OR COUNT??? OR ITERAT??? OR PERIOD?? OR
 INTERVAL?? OR PROCESS?)
 S18 7 S S17 NOT PY>2000
 S19 4 RD (unique items)
 S20 23 S S4(20N) (TIM??? OR COUNT??? OR ITERAT??? OR PERIOD?? OR
 INTERVAL?? OR PROCESS?)
 S21 10 S S20 NOT (S11 OR S14 OR S17)
 S22 7 RD (unique items)
 S23 5 S S22 NOT PY>2000
 S24 0 S S4 AND S7
 S25 0 S S3 AND S7
 S26 32 S S2 AND S7
 S27 28 RD (unique items)
 S28 19 S S27 NOT PY>2000
 S29 19 S S28 NOT (S11 OR S14 OR S17 OR S21)
 S30 0 S S29 AND (RESOLUTION OR QUANTI?)

11/3,K/1 (Item 1 from file: 8) [Links](#)

Fulltext available through: [ScienceDirect](#)

Ei Compendex(R)

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11457389 E.I. No: EIP07041038002

Title: Multi-resolution approach to identification of recurring signal patterns

Author: Kamarthi, Sagar V.; Zeid, Ibrahim; Subramaniam, Lakshmanan

Corporate Source: Department of Mechanical and Industrial Engineering 334 Snell Engineering Center Northeastern University, Boston, MA 02115, United States

Conference Title: Wavelet Applications in Industrial Processing IV

Conference Location: Boston, MA, United States **Conference Date:** 20061002-20061003

E.I. Conference No.: 68964

Source: Proceedings of SPIE - The International Society for Optical Engineering Wavelet Applications in Industrial Processing IV v 6383 2006.

Publication Year: 2006

CODEN: PSISDG **ISSN:** 0277-786X **ISBN:** 9780819464811

DOI: 10.1117/12.685692

DOI: [10.1117/12.685692](#)

Article Number: 63830D

Language: English

Abstract: ...a frequency index is assigned to every sampling point of the process signal at every **resolution** level to improve the **pattern** recognition. **Recurring patterns** are first **detected** at different resolutions and are then integrated to arrive at the final results. The experimental..

16/3,K/1 (Item 1 from file: 2) [Links](#)

Fulltext available through: [SPIE - The International Society of Optical Engineering](#) [USPTO Full Text Retrieval](#)

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INSPEC

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05520090 **INSPEC Abstract Number:** B9312-2550G-014

Title: Sub-micron deep-UV imaging with a catadioptric step-and-repeat exposure system

Author Elliott, D.J.

Author Affiliation: Excimer Laser Syst., Wayland, MA, USA

Journal: Proceedings of the SPIE - The International Society for Optical Engineering vol.1835 p. 52-61

Publication Date: 1993 **Country of Publication:** USA

CODEN: PSISDG **ISSN:** 0277-786X

U.S. Copyright Clearance Center Code: 0 8194 1036 5/93/\$4.00

Conference Title: Excimer Lasers: Applications, Beam Delivery Systems and Laser Design

Conference Sponsor: SPIE

Conference Date: 18-19 Nov. 1992 **Conference Location:** Boston, MA, USA

Language: English

Subfile: B

Identifiers: ...catadioptric step-and-repeat exposure system...

19/3,K/1 (Item 1 from file: 2) [Links](#)

Fulltext available through: [SPIE - The International Society of Optical Engineering](#) [USPTO Full Text Retrieval](#)

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INSPEC

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05520090 **INSPEC Abstract Number:** B9312-2550G-014

Title: Sub-micron deep-UV imaging with a catadioptric step-and-repeat exposure system

Author Elliott, D.J.

Author Affiliation: Excimer Laser Syst., Wayland, MA, USA

Journal: Proceedings of the SPIE - The International Society for Optical Engineering vol.1835 p. 52-61

Publication Date: 1993 **Country of Publication:** USA

CODEN: PSISDG **ISSN:** 0277-786X

U.S. Copyright Clearance Center Code: 0 8194 1036 5/93/\$4.00

Conference Title: Excimer Lasers: Applications, Beam Delivery Systems and Laser Design

Conference Sponsor: SPIE

Conference Date: 18-19 Nov. 1992 **Conference Location:** Boston, MA, USA

Language: English

Subfile: B

Abstract: ...high density bipolar IC manufacturing. The imaging system and its optics are described along with **process** conditions used to **pattern** deep-UV sensitive photoresists. SEM photos of imaged wafers are presented, and methods to further **improve** deep-UV pattern **resolution** are discussed.

19/3,K/2 (Item 1 from file: 6) [Links](#)

Fulltext available through: [Check for PDF Download Availability and Purchase](#)

NTIS

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Radioisotopes in the study of the adaptation of dental amalgam fillings

Bermawi, A.

Atomic Energy Commission, Damascus (Syria). Dept. of Radiation Protection and Nuclear Safety.

Corporate Source Codes: 089946002; 0626500

Report Number: AECS-PR/FRSR-92

Feb 95 206p

Language: Arabic

Journal Announcement: GRAI9617

Arabic.

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...under study, and spread from their basal parts to the angle of their occlusal margin. - **Quantitative increase** of leakage with time. - The type of the alloy played an active role in **determining the pattern** of leakage. - Metallic amalgam alloys with spheroidal regular atoms showed the least leakage. - The occlusal...

19/3,K/3 (Item 1 from file: 34) [Links](#)

Fulltext available through: [ScienceDirect \(Elsevier\)](#) [USPTO Full Text Retrieval Options](#)
SciSearch(R) Cited Ref Sci

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07764866 **Genuine Article#:** 205PY **No. References:** 112

Dynamics of energy technologies and global change

Author: Grubler A; Nakicenovic N; Victor DG (REPRINT)

Corporate Source: COUNCIL FOREIGN RELAT,58 E 68TH ST/NEW YORK//NY/10021 (REPRINT); COUNCIL FOREIGN RELAT,NEW YORK//NY/10021; INT INST APPL SYST ANAL,ENVIRONMENTALLY COMPATIBLE ENERGY STRATEGIES PROJ/A-2361 LAXENBURG//AUSTRIA/

Journal: ENERGY POLICY , 1999 , V 27 , N5 (MAY) , P 247-280

ISSN: 0301-4215 **Publication date:** 19990500

Publisher: ELSEVIER SCI LTD , THE BOULEVARD, LANGFORD LANE, KIDLINGTON, OXFORD OX5 1GB, OXON, ENGLAND

Language: English **Document Type:** REVIEW (ABSTRACT AVAILABLE)

Abstract: ...new modeling techniques. In the historical record, we identify characteristic "learning rates" that allow simple **quantified** characterization of the **improvement** in cost and performance due to cumulative experience and investments. We also **identify patterns, processes** and timescales that typify the diffusion of new technologies in competitive markets. Technologies that are...

19/3,K/4 (Item 1 from file: 94) [Links](#)

JICST-EPlus

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01912263 **JICST Accession Number:** 93A0958927 **File Segment:** JICST-E

Practical resolution improvement in oblique illumination lithography.

TAMECHIKA EMI (1); HORIUCHI TOSHIYUKI (1); HARADA KATSUHIRO (1)

(1) Nippon Telegraph & Telephone Corp., LSI Lab.

Denshi Joho Tsushin Gakkai Gijutsu Kenkyu Hokoku (IEIC Technical Report (Institute of Electronics, Information and Communication Engineers) , 1993 , VOL.93,NO.300(SDM93 110-117) , PAGE.1-8 , FIG.15, REF.9

Journal Number: S0532BBG

Universal Decimal Classification: 621.382.002.2

Language: Japanese **Country of Publication:** Japan

Document Type: Journal

Article Type: Original paper

Media Type: Printed Publication

Abstract: An oblique illumination can **improve the resolution** in optical lithography. This paper presents a **resolution improvement** technique for non-periodic patterns where the oblique illumination effects are limited. Since the problems are caused by non-periodicity, a technique called auxiliary..

23/3,K/1 (Item 1 from file: 2) [Links](#)

Fulltext available through: [SPIE - The International Society of Optical Engineering](#) [USPTO Full Text Retrieval Options](#)

INSPEC

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04779203 **INSPEC Abstract Number:** B91002187, C91006205

Title: Advanced 5x reticle inspection technologies for ULSI devices

Author Takeuchi, S.; Joseph, D.A.; Yoshida, M.; Moriizumi, K.; Parker, D.; Watakabe, Y.

Author Affiliation: LSI R&D Lab., Mitsubishi Electr. Corp., Itami, Japan

Journal: Proceedings of the SPIE - The International Society for Optical Engineering vol.1261 p. 195-205

Publication Date: 1990 **Country of Publication:** USA

CODEN: PSISDG **ISSN:** 0277-786X

Conference Title: Integrated Circuit Metrology, Inspection and Process Control IV

Conference Sponsor: SPIE

Conference Date: 5-6 March 1990 **Conference Location:** San Jose, CA, USA

Language: English

Subfile: B C

Abstract: ...system are enhanced using programmable finite impulse response filters. New defect detection algorithms are utilized. **Increased resolution** is also incorporated in the database images. Higher resolution database images are especially effective in improving sensitivity and reducing false **detections** in small **pattern** geometry. The database format has also been optimized to minimize the disk storage requirements and network file transfer **time**. The new database generator is capable of expanding compacted data and creating grey level bit...

23/3,K/2 (Item 2 from file: 2) [Links](#)

Fulltext available through: [ScienceDirect](#)

INSPEC

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03271631 **INSPEC Abstract Number:** B84035112

Title: Optical Microlithography II. Technology for the 1980s

Journal: Proceedings of the SPIE - The International Society for Optical Engineering vol.394

Publication Date: 1983 **Country of Publication:** USA

CODEN: PSISDG **ISSN:** 0277-786X

Conference Title: Optical Microlithography II. Technology for the 1980s

Conference Sponsor: SPIE

Conference Date: 16-17 March 1983 **Conference Location:** Santa Clara, CA, USA

Language: English

Subfile: B

Abstract: ...submicron optical lithography; Ge-Se based resist systems for submicron VLSI application; two layer photoresist **processes** in a production environment; overlay performance of the Perkin-Elmer Model 500; deep UV high **resolution** lithography; **improved** Novolak-based photoresist system for VLSI lithography; automatic inspection for in-aligner reticle qualification and wafer **pattern** defect **detection**. Abstracts of individual papers can be found under the relevant classification codes in this or...

23/3,K/3 (Item 1 from file: 34) [Links](#)

SciSearch(R) Cited Ref Sci

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01325350 **Genuine Article#:** GP171 **No. References:** 10

OPTIMIZING SEPARATION PARAMETERS IN CAPILLARY ISOELECTRIC-FOCUSING

Author: ZHU MD; RODRIGUEZ R; WEHR T

Corporate Source: BIO-RAD LABS,3300 REGATTA BLVD/RICHMOND//CA/94804; BIO-RAD LABS,3300 REGATTA BLVD/RICHMOND//CA/94804

Journal: JOURNAL OF CHROMATOGRAPHY , 1991 , V 559 , N1-2 , P 479-488

Language: ENGLISH **Document Type:** ARTICLE (Abstract Available)

Abstract: ...acidic proteins. Mobilization with a neutral-pI zwitterion selectively mobilized neutral and basic proteins with **improved resolution** . Observation of colored proteins in glass capillaries mounted on thermosensitive liquid crystal was used to **determine** the heat generation **patterns** along the capillary and the effect of salt on the IEF **process**. The presence of salt in the sample resulted in long focusing and mobilization times. Incorporation...

23/3,K/4 (Item 1 from file: 35) [Links](#)

Dissertation Abs Online

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779046 **ORDER NO:** AAD82-11417

HOLOGRAPHIC MOIRE - A SYSTEMATIC STUDY AND APPLICATIONS

Author: NARAYANAN, RAJAGOPALA

Degree: PH.D.

Year: 1981

Corporate Source/Institution: ILLINOIS INSTITUTE OF TECHNOLOGY (0091)

Source: Volume 4212B of Dissertations Abstracts International.

PAGE 4857 . 198 PAGES

...obtained with only two holograms and the surface geometry. A new technique is proposed to **improve the resolution** and sensitivity of the results by utilizing both the fringe **patterns** of the double **illumination**. Techniques to obtain derivatives are described bringing out the advantages of digital signal **processing** and smoothened cubic spline. Holographic non destructive testing is an important application. Its advantages over...

23/3,K/5 (Item 1 from file: 248) [Links](#)

PIRA

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00254069 Pira Accession Number: 40503277

Title: PROCESSING ELECTRON BEAM SENSITIVE RESISTS

Patent Assignee: RCA CORP.

Patent Number: GB 1513388

Application Date: 740916

Document Type: Patent

Language: unspecified

Abstract: Development process for resist films gives a relief **pattern** of **increased sensitivity** and **resolution**.

[File 344] Chinese Patents Abs Jan 1985-2006/Jan
(c) 2006 European Patent Office. All rights reserved.

[File 347] JAPIO Dec 1976-2006/Nov(Updated 070228)
(c) 2007 JPO & JAPIO. All rights reserved.

[File 350] Derwent WPIX 1963-2006/UD=200716
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**File 350: DWPI has been enhanced to extend content and functionality of the database. For more info, visit
<http://www.dialog.com/dwpi/>.*

[File 371] French Patents 1961-2002/BOPI 200209
(c) 2002 INPI. All rts. reserv. All rights reserved.

**File 371: This file is not currently updating. The last update is 200209.*

Set	Items	Description
S1	3361068	S IMAG? OR PHOTO OR DIGITAL???()IMAG? OR PICTURE?? OR PHOTOS OR PHOTOGRAPH?? OR LOGO?? OR ICON?? OR GLYPH?? OR GRAPHIC? OR GRAPHIX OR PICTOGRAM?? OR PICTOGRAPH?? OR SYMBOL?? OR PATTERN?? OR BIT()MAP??
S2	936242	S (WATERMARK?? OR IDENTIFIER OR SYMBOL?? OR BARCODE?? OR MARK?? OR PATTERN?? OR NUMBER(3N)PATTERN?? OR ENCRYPT?? OR EMBED? OR INSCRI? OR LIGHT()ACTIVATE? OR HIDE? ? OR HIDDEN OR HIDDEN(3N)COD? OR AUTHENTICAT? OR IMPREGNAT???? OR STEGAN? OR ID OR IDENTIFICATION OR PASSWORD OR PASSCODE?? OR PASS() (WORD?? OR CODE?? OR INFORMATION OR ENCOD?)) (3N)S1
S3	74421	S (DETECT? OR SENS? OR IDENTIFY OR IDENTIFIES OR FIND??? OR INDICAT? OR DETERM? OR DISCOVER??? UNCOVER??? OR ILLUMINAT?) (3N)S2
S4	94	S ((INCREAS? OR IMPROV?) (3N) (RESOLUTION OR QUANTI?)) (20N)S3
S5	333332	S (SET???? OR INITIAT? OR TERMINAT? OR STOP? OR HALT ???) (3N) (TIM??? OR COUNT??? OR ITERAT??? OR PERIOD?? OR INTERVAL?? OR PROCESS?)
S6	2187	S (REPEAT??? OR START??? REINITIAT? OR RECUR? OR BEGIN OR REPETIT?) (3N)S5
S7	2244	S AU=(MIYAKE, N? OR MIYAKE N?)
S8	1	S S4 AND (S5 OR S6)
S9	0	S S8 NOT CRANE
S10	3	S S4 (20N) (REPEAT??? OR START??? REINITIAT? OR RECUR? OR BEGIN OR REPETIT?)
S11	1	S S10 NOT ACID
S12	2346	S ((INCREAS? OR IMPROV? OR ENHANC? OR CHANG??? OR MODIF?) (3N) (RESOLUTION OR QUANTI?)) (20N)S2
S13	439	S S12 (10N) (DETECT? OR SENS? OR IDENTIFY OR IDENTIFIES OR FIND??? OR INDICAT? OR DETERM? OR DISCOVER??? UNCOVER??? OR ILLUMINAT?)
S14	0	S S13 AND WATERMARK??
S15	20	S S13 AND IC=G06K?
S16	14	S S15 NOT AD=20001023:20070309/PR
S17	14	S S16 NOT (S10 OR S10)
S18	7	S (S4 OR S12) AND S7
S19	7	S S18 NOT (S10 OR S17)
S20	0	S S19 AND RESOLUTION
S21	5	S S4 AND IC=G06K?
S22	3	S S21 NOT AD=20001023:20070309/PR
S23	0	S S22 NOT (S10 OR S17)
S24	109	S S2 AND S7
S25	0	S ((INCREAS? OR IMPROV? OR ENHANC?) (3N) (RESOLUTION OR QUANTI?)) (3N)S24
S26	1	S ((INCREAS? OR IMPROV? OR ENHANC?) (3N) (RESOLUTION OR QUANTI?)) (S)S24
S27	3	S S24 AND WATERMARK???
S28	192	S S3 (3N)S5
S29	2	S S28 (3N) (REPEAT??? OR START??? REINITIAT? OR RECUR? OR BEGIN OR REPETIT?)
S30	1	S S29 NOT SEWING
S31	0	S S28 (20N) WATERMARK???

S32 8 S S28 AND IC=G06K?
 S33 7 S S32 NOT (S10 OR S17 OR S27 OR S30)
 S34 6 S S33 NOT FLOW()METER
 S35 0 S S34 AND RESOLUTION

11/3,K/1 (Item 1 from file: 350) [Links](#)

Derwent WPIX

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0007139464 *Drawing available*

WPI Acc no: 1995-173620/199523

XRPX Acc No: N1995-136137

Detailed pattern exposure method for semiconductor device manufacturing process - passing primary and secondary excitation rays to memory pattern board to store image to emit detailed light emission pattern with high degree of resolution

Patent Assignee: DAINIPPON PRINTING CO LTD (NIPQ)

Inventor: TAKAHASHI M

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
JP 7094394	A	19950407	JP 1993236060	A	19930922	199523	B

Priority Applications (no., kind, date): JP 1993236060 A 19930922

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
JP 7094394	A	JA	7	6	

Alerting Abstract ...ADVANTAGE - Eliminates use of X-ray resist as **photo sensitive** layer. Provides **pattern** with high degree of **resolution**. **Improves resolution** with fluorescent material of appropriate wavelength. Realises **repetitive** use of memory pattern board.

16/3,K/1 (Item 1 from file: 347) [Links](#)

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05538306 ****Image available****

BAR CODE READER

Pub. No.: 09-153106 [JP 9153106 A]

Published: June 10, 1997 (19970610)

Inventor: YOSHIKAWA KENJI

Applicant: OLYMPUS OPTICAL CO LTD [000037] (A Japanese Company or Corporation), JP (Japan)

Application No.: 07-310552 [JP 95310552]

Filed: November 29, 1995 (19951129)

International Class: G06K-007/10

ABSTRACT

...**SOLUTION:** In the bar code reader, an **illumination light quantity change pattern** selecting part 11 selects a change **pattern** in the **illumination** light quantity of each divided **illumination** part in an illumination device 2 based upon the reading rate of a multistage bar...

16/3,K/2 (Item 2 from file: 347) [Links](#)

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03390498 **Image available**

MAGNETIC BAR CODE

Pub. No.: 03-053398 [JP 3053398 A]

Published: March 07, 1991 (19910307)

Inventor: OKABE HIROTAKA

Applicant: NEC CORP [000423] (A Japanese Company or Corporation), JP (Japan)

Application No.: 01-189048 [JP 89189048]

Filed: July 21, 1989 (19890721)

Journal: Section: P, Section No. 1206, Vol. 15, No. 205, Pg. 116, May 27, 1991 (19910527)

International Class: G06K-019/06

ABSTRACT

PURPOSE: To improve resolution and to extend a distance for detection by providing plural groove-shaped rectangular patterns on a magnetic body or a conductive metal and giving a shallower depth to a...

16/3,K/3 (Item 3 from file: 347) [Links](#)

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03005986 CHARACTER SEGMENTING METHOD

Pub. No.: 01-303586 [JP 1303586 A]

Published: December 07, 1989 (19891207)

Inventor: SUZUKI AKIKO

SATO HAJIME

TACHIKAWA MICHIOYOSHI

Applicant: RICOH CO LTD [000674] (A Japanese Company or Corporation), JP (Japan)

Application No.: 63-133424 [JP 88133424]

Filed: May 31, 1988 (19880531)

Journal: Section: P, Section No. 1011, Vol. 14, No. 98, Pg. 87, February 22, 1990 (19900222)

International Class: G06K-009/34

ABSTRACT

...patterns of plural successive character elements, evaluate the respective patterns according to the results, and determines the character element or combined pattern having the highest accuracy as a character pattern. Consequently, the high-reliability character segmentation is performed with relatively small processing quantity without increasing the quantity of hardware while data are fed back from the recognition system.

16/3,K/4 (Item 4 from file: 347) [Links](#)

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02628680 **Image available**

KNOWLEDGE PROCESSING SYSTEM FOR CHARACTER READER

Pub. No.: 63-245580 [JP 63245580 A]

Published: October 12, 1988 (19881012)

Inventor: NANBA HIROMI

Applicant: TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP (Japan)

Application No.: 62-078562 [JP 8778562]

Filed: March 31, 1987 (19870331)

Journal: Section: P, Section No. 824, Vol. 13, No. 54, Pg. 130, February 08, 1989 (19890208)

International Class: G06K-009/72

ABSTRACT

PURPOSE: To refer to a word including a character with a voiced sound symbol without increasing the quantity of

the data of a knowledge base by **detecting** and excluding a voiced sound **symbol**/semivoiced sound **symbol** present in the knowledge base and a candidate character group at the time of treating...

16/3,K/5 (Item 5 from file: 347) [Links](#)

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01705191 ****Image available****

CHARACTER/PATTERN RECOGNIZER

Pub. No.: 60-183691 [JP 60183691 A]

Published: September 19, 1985 (19850919)

Inventor: TOMITA MASAMI

ONO MASAMI

FUJII HISATAKA

Applicant: MATSUSHITA ELECTRIC WORKS LTD [000583] (A Japanese Company or Corporation), JP (Japan)

Application No.: 59-040856 [JP 8440856]

Filed: March 02, 1984 (19840302)

Journal: Section: P, Section No. 428, Vol. 10, No. 38, Pg. 43, February 14, 1986 (19860214)

International Class: G06K-009/62

ABSTRACT

...of them are fixed around the pen tip in all directions. The lines comprising characters, **symbols**, and **patterns** depicted on a sheet of paper by the pen 1 are **detected** if only a **change** in the **quantity** of the light coming into the fiber 3 is **detected**. Only while the pen tip is pressed against the paper, the pen reads a light...

16/3,K/6 (Item 6 from file: 347) [Links](#)

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00414041 GRAPHIC QUANTIZING DEVICE

Pub. No.: 54-066041 [JP 54066041 A]

Published: May 28, 1979 (19790528)

Inventor: NISHIJIMA YASUO

MIURA TETSUO

Applicant: NEC CORP [000423] (A Japanese Company or Corporation), JP (Japan)

Application No.: 52-132731 [JP 77132731]

Filed: November 04, 1977 (19771104)

Journal: Section: E, Section No. 125, Vol. 03, No. 86, Pg. 163, July 24, 1979 (19790724)

International Class: G06K-009/00

ABSTRACT

...surface has been set. As a result, circuit 22 generates a quantization signal equivalent to **pattern** density inside the area between the change point from a white level into an ink block, and the next **change** point. This **quantization** signal is **detected** by black-level **detection** circuit 42 of optimum-threshold- level setting part 40, and then applied to threshold-level.

17/3/7 (Item 1 from file: 350) [Links](#)

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0009104420 *Drawing available*

WPI Acc no: 1999-023596/199902

Related WPI Acc No: 1998-178641; 1998-413223

XRPX Acc No: N1999-018095

Optical imaging unit for use in 2D hand-held bar code reader - has image sensor oriented such that, when bar code reader is in normal reading orientation corresponding to ID bar code, diagonal of photosensitive element array is approximately aligned with reading axis

Patent Assignee: WELCH ALLYN INC (WELC-N)

Inventor: KARPEN T W

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 5837985	A	19981117	US 1996649126	A	19960514	199902	B
			US 1996692807	A	19960731		

Priority Applications (no., kind, date): US 1996649126 A 19960514; US 1996692807 A 19960731

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes		
US 5837985	A	EN	15	11	Continuation of application	US 1996649126	

17/3/8 (Item 2 from file: 350) [Links](#)

Derwent WPIX

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0008335755 *Drawing available*

WPI Acc no: 1997-448215/199741

XRPX Acc No: N1997-373577

Output control device for printing appts e.g laser printer - converts character patterns corresponding to input text data into bit map data using size-changed and smoothed character patterns if it is determined that resolution is second resolution

Patent Assignee: CANON KK (CANO)

Inventor: EGAWA S; MATSUMOTO K

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 5664070	A	19970902	US 1991676442	A	19910328	199741	B
			US 1992905223	A	19920629		
			US 1993175185	A	19931229		
			US 1996690944	A	19960801		

Priority Applications (no., kind, date): JP 199081395 A 19900330

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes		
US 5664070	A	EN	10	5	Continuation of application	US 1991676442	
					Continuation of application	US 1992905223	
					Continuation of application	US 1993175185	

17/3/9 (Item 3 from file: 350) [Links](#)

Derwent WPIX

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0006536782 *Drawing available*

WPI Acc no: 1993-346172/199344

XRPX Acc No: N1993-267373

Pattern recognition method for e.g. handwritten signatures - establishes original files of basic structures, stores in reference image file and compares with information found as significant basic structures

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)

Inventor: RUDOLPH V; RUPPERT W

Patent Family (4 patents, 3 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 567680	A1	19931103	EP 1992107378	A	19920430	199344	B
US 5657396	A	19970812	US 199355441	A	19930430	199738	E
			US 1995486470	A	19950816		
EP 567680	B1	19990922	EP 1992107378	A	19920430	199943	E
DE 69230031	E	19991028	DE 69230031	A	19920430	199951	E
			EP 1992107378	A	19920430		

Priority Applications (no., kind, date): EP 1992107378 A 19920430

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
EP 567680	A1	EN	20	12		
Regional Designated States,Original	DE FR GB					
US 5657396	A	EN	15	12	Division of application	US 199355441
EP 567680	B1	EN				
Regional Designated States,Original	DE FR GB					
DE 69230031	E	DE			Application	EP 1992107378
					Based on OPI patent	EP 567680

17/3/10 (Item 4 from file: 350) [Links](#)

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0006356307 *Drawing available*

WPI Acc no: 1993-154289/199319

XRPX Acc No: N1993-118020

Image conversion appts for converting specific images to pattern images - inputs image information, sets mode associated with resolution, detects specific image, converts into pattern image having predetermined resolution, outputs image information and changes resolution based on set mode

Patent Assignee: CANON KK (CANO)

Inventor: AIBA Y

Patent Family (6 patents, 7 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 541361	A1	19930512	EP 1992310117	A	19921104	199319	B
JP 5130444	A	19930525	JP 1991319863	A	19911107	199325	E
US 5552894	A	19960903	US 1992971064	A	19921103	199641	E
EP 541361	B1	19980527	EP 1992310117	A	19921104	199825	E
DE 69225673	E	19980702	DE 69225673	A	19921104	199832	E
			EP 1992310117	A	19921104		
JP 3332398	B2	20021007	JP 1991319863	A	19911107	200273	E

Priority Applications (no., kind, date): JP 1991319863 A 19911107

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
EP 541361	A1	EN	23	16		
Regional Designated States,Original	DE FR GB IT NL					
US 5552894	A	EN	20	12		

EP 541361	B1	EN				
Regional Designated States,Original	DE FR GB IT NL					
DE 69225673	E	DE			Application	EP 1992310117
					Based on OPI patent	EP 541361
JP 3332398	B2	JA	14		Previously issued patent	JP 05130444

17/3/11 (Item 5 from file: 350) [Links](#)

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0006056828 *Drawing available*

WPI Acc no: 1992-294236/199236

Related WPI Acc No: 1992-254954; 1995-045353

XRPX Acc No: N1992-225410

Magnetic medium used as magnetic patterns of magnetic scale - has substrate with predetermined patterns and magnetised substances arranged in substrate according to patterns

Patent Assignee: TEIJIN SEIKI CO LTD (TEIX)

Inventor: TOGAWA M; TOYAMA K

Patent Family (14 patents, 3 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 501815	A2	19920902	EP 1992301703	A	19920228	199236	B
JP 4274308	A	19920930	JP 199134935	A	19910301	199246	E
JP 4329612	A	19921118	JP 199199354	A	19910501	199301	E
JP 4329613	A	19921118	JP 199199355	A	19910501	199301	E
EP 501815	A3	19930623	EP 1992301703	A	19920228	199405	E
US 5336586	A	19940809	US 1992842057	A	19920226	199431	E
			US 199311791	A	19930201		
US 5350618	A	19940927	US 1992842057	A	19920226	199438	E
US 5429911	A	19950704	US 1992842057	A	19920226	199532	E
			US 199311791	A	19930201		
			US 1994179707	A	19940111		
US 5527663	A	19960618	US 1992842057	A	19920226	199630	E
			US 199311791	A	19930201		
			US 1993136288	A	19931015		
			US 1995437569	A	19950509		
EP 501815	B1	19961211	EP 1992301703	A	19920228	199703	E
US 5580639	A	19961203	US 1992842057	A	19920226	199703	E
			US 199311791	A	19930201		
			US 1993136279	A	19931123		
DE 69215717	E	19970123	DE 69215717	A	19920228	199709	E
			EP 1992301703	A	19920228		
JP 3005311	B2	20000131	JP 199199355	A	19910501	200010	E
JP 3135130	B2	20010213	JP 199134935	A	19910301	200111	E

Priority Applications (no., kind, date): JP 199199355 A 19910501; JP 199134935 A 19910301; JP 199199354 A 19910501

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
EP 501815	A2	EN	33	63		
Regional Designated States,Original	DE FR GB					

JP 4274308	A	JA	14			
JP 4329612	A	JA	8			
JP 4329613	A	JA	7			
EP 501815	A3	EN				
US 5336586	A	EN	30	63	Division of application	US 1992842057
US 5350618	A	EN	30	63		
US 5429911	A	EN	29	63	Division of application	US 1992842057
					Division of application	US 199311791
					Division of patent	US 5336586
					Division of patent	US 5350618
US 5527663	A	EN	30	63	Division of application	US 1992842057
					Division of application	US 199311791
					Continuation of application	US 1993136288
					Division of patent	US 5336586
					Division of patent	US 5350618
EP 501815	B1	EN	33	63		
Regional Designated States, Original	DE FR GB					
US 5580639	A	EN	24	63	Division of application	US 1992842057
					Division of application	US 199311791
					Division of patent	US 5336586
					Division of patent	US 5350618
DE 69215717	E	DE			Application	EP 1992301703
					Based on OPI patent	EP 501815
JP 3005311	B2	JA	6		Previously issued patent	JP 04329613
JP 3135130	B2	JA	14		Previously issued patent	JP 04274308

17/3/12 (Item 6 from file: 350) [Links](#)

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0005382214

WPI Acc no: 1990-382814/199051

XRPX Acc No: N1990-291841

Text raster or pel images higher resolution enhancement method - selecting patterns occurring in text data but not in half-tone images for comparison with lower resolution and surrounding pels

Patent Assignee: IBM CORP (IBMC); INT BUSINESS MACHINES CORP (IBMC)

Inventor: KANTOR S

Patent Family (6 patents, 3 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 4975785	A	19901204	US 1989389453	A	19890804	199051	B
EP 412034	A	19910206	EP 1990480081	A	19900605	199106	E
JP 3214271	A	19910919	JP 1990190880	A	19900720	199144	E
EP 412034	A3	19920624	EP 1990480081	A	19900605	199333	E
EP 412034	B1	19950816	EP 1990480081	A	19900605	199537	E
DE 69021668	E	19950921	DE 69021668	A	19900605	199543	E
			EP 1990480081	A	19900605		

Priority Applications (no., kind, date): US 1989389453 A 19890804

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
EP 412034	A	EN			

Regional Designated States,Original	DE FR GB					
EP 412034	A3	EN				
EP 412034	B1	EN	15	10		
Regional Designated States,Original	DE FR GB					
DE 69021668	E	DE			Application	EP 1990480081
					Based on OPI patent	EP 412034

17/3/13 (Item 7 from file: 350) [Links](#)

Derwent WPIX

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0003574162

WPI Acc no: 1986-008930/198602

Sensing appts. for opaque pattern on translucent substrate - has narrow band filter between sensor and pattern with corresp. band rear light source

Patent Assignee: IBM CORP (IBMC)

Inventor: GOODMAN D S

Patent Family (4 patents, 3 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 166881	A	19860108	EP 1985104680	A	19850419	198602	B
US 4577099	A	19860318	US 1984626366	A	19840629	198614	E
			US 1984626366	A	19840629		
EP 166881	B	19901024	EP 1985104680	A	19850419	199043	E
DE 3580199	G	19901129				199049	E

Priority Applications (no., kind, date): US 1984626366 A 19840629

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
EP 166881	A	EN	13	4	
Regional Designated States,Original	DE FR GB				
EP 166881	B	EN		4	
Regional Designated States,Original	DE FR GB				

17/3/14 (Item 8 from file: 350) [Links](#)

Derwent WPIX

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0001655784

WPI Acc no: 1978-K7420A/197849

Non-coherent optical signal pattern recognition method - uses double light modulation of second displaced pattern to determine accurately correlational function extremum

Patent Assignee: KHARKOV POLY (KHPO)

Inventor: CHEREPAKHA

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
SU 561202	A	19780414	SU 2317238	A	19760122	197849	B

26/3,K/1 (Item 1 from file: 350) [Links](#)

Derwent WPIX

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0008398717 *Drawing available*

WPI Acc no: 1997-515518/199748

XRFX Acc No: N1997-428829

Image processing apparatus for transforming low to high resolution information in communication between devices - has forming device that forms high resolution information based on synthesised values provided by synthesis device

Patent Assignee: CANON KK (CANO)

Inventor: MIYAKE N

Patent Family (7 patents, 5 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 803841	A2	19971029	EP 1997302833	A	19970424	199748	B
JP 9294204	A	19971111	JP 1996105402	A	19960425	199804	E
US 6009213	A	19991228	US 1997847760	A	19970423	200007	E
JP 3210248	B2	20010917	JP 1996105402	A	19960425	200156	E
EP 803841	B1	20040623	EP 1997302833	A	19970424	200442	E
DE 69729603	E	20040729	DE 69729603	A	19970424	200452	E
			EP 1997302833	A	19970424		
DE 69729603	T2	20050714	DE 69729603	A	19970424	200547	E
			EP 1997302833	A	19970424		

Priority Applications (no., kind, date): EP 1997302833 A 19970424; JP 1996105402 A 19960425

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
EP 803841	A2	EN	22	14		
Regional Designated States,Original	DE FR GB IT					
JP 9294204	A	JA	8			
JP 3210248	B2	JA	8		Previously issued patent	JP 09294204
EP 803841	B1	EN				
Regional Designated States,Original	DE FR GB IT					
DE 69729603	E	DE			Application	EP 1997302833
					Based on OPI patent	EP 803841
DE 69729603	T2	DE			Application	EP 1997302833
					Based on OPI patent	EP 803841

27/3,K/1 (Item 1 from file: 347) [Links](#)

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06900466 ****Image available****

DEVICE AND METHOD FOR PROCESSING IMAGE AND STORAGE MEDIUM

Pub. No.: 2001-127976 [JP 2001127976 A]

Published: May 11, 2001 (20010511)

Inventor: MIYAKE NOBUTAKA

Applicant: CANON INC

Application No.: 11-304353 [JP 99304353]

Filed: October 26, 1999 (19991026)

Inventor: MIYAKE NOBUTAKA

ABSTRACT

PROBLEM TO BE SOLVED: To determine whether a **mark image** such as a **watermark** is included in picture information within a range, where the throughput of a printing device is not reduced, when... ..time is 'out' during the detection processing (step S405), it is determined that a specified **pattern** does not exist in the image (step S406).

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27/3,K/2 (Item 1 from file: 350) [Links](#)

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0013408287 *Drawing available*

WPI Acc no: 2003-498640/200347

XRPX Acc No: N2003-396471

Image processor extracts prescribed information from fed image according to predetermined extracting method which is switched based on fed classification information

Patent Assignee: CANON KK (CANO)

Inventor: KUSAKABE M; MIYAKE N; UMEDA K

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
JP 2003110838	A	20030411	JP 2001300542	A	20010928	200347	B

Priority Applications (no., kind, date): JP 2001300542 A 20010928

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
JP 2003110838	A	JA	15	18	

...

Inventor: MIYAKE N

Alerting Abstract ... USE - For image processing in connection with watermarking, e.g. as printer driver software in a computer which mainly creates the image information for output to a print engine, or application... .. quality and extraction precision in extracting information embedded in image.

Original Publication Data by Authority

Inventor name & address:

MIYAKE NOBUTAKA...

27/3,K/3 (Item 2 from file: 350) [Links](#)

Derwent WPIX

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0010768936 *Drawing available*

WPI Acc no: 2001-383214/200141

XRPX Acc No: N2001-281129

Image processing apparatus which can determine if the information contains an image such as a watermark without causing lowering of the throughput of a printer

Patent Assignee: CANON KK (CANO)
Inventor: MIYAKE N

Patent Family (3 patents, 26 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 1096782	A2	20010502	EP 2000309193	A	20001018	200141	B
JP 2001127976	A	20010511	JP 1999304353	A	19991026	200143	E
JP 3733268	B2	20060111	JP 1999304353	A	19991026	200608	E

Priority Applications (no., kind, date): JP 1999304353 A 19991026

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
EP 1096782	A2	EN	15	7		
Regional Designated States,Original	AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI					
JP 2001127976	A	JA	11			
JP 3733268	B2	JA	12		Previously issued patent	JP 2001127976

Image processing apparatus which can determine if the information contains an image such as a watermark without causing lowering of the throughput of a printer
Inventor: MIYAKE N

Alerting Abstract ...If the count has reached a determined count, it is judged that there is no **watermark**, step 406 if the time has run out.
...USE - Determining if **image** information contains a **watermark**.

Title Terms .../Index Terms/Additional Words: **WATERMARK**;

Original Publication Data by Authority

Inventor name & address:

Miyake, Nobutaka... MIYAKE NOBUTAKA ...

Original Abstracts:

of being printed out has been entered, whether or not the image information contains a **mark** image such as a **watermark** is determined to **such** an extent that will not lower the throughput of a printer. To accomplish this, the...

...

Claims:

image information; determination means for determining whether an input image contains a mark indicative of a specific image; **setting** means for setting allowable time necessary for the determination to be made by said determination... be determined whether the input image contains the mark indicative of a specific image within the allowable time **set** by said setting means

30/3,K/1 (Item 1 from file: 350) Links

Derwent WPIX

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0016178830 *Drawing available*

WPI Acc no: 2006-710470/200674

XRPX Acc No: N2006-559022

Photographic subject authenticating device. for portable telephone, stops repeated authentication process of photographic object when repeated- authentication stop instructions are determined to be true

Patent Assignee: OMRON CORP (OMRO); OMRON KK (OMRO); OMRON TATEISI ELECTRONICS CO (OMRO)

Inventor: SENG M; CHIGA M

Patent Family (5 patents, 40 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 1703438	A1	20060920	EP 2006111119	A	20060314	200674	B
JP 2006259922	A	20060928	JP 200574033	A	20050315	200674	E
US 20060208882	A1	20060921	US 2006374370	A	20060313	200674	E
KR 2006101285	A	20060922	KR 200623428	A	20060314	200705	E
CN 1834990	A	20060920	CN 200610059203	A	20060315	200707	E

Priority Applications (no., kind, date): JP 200574033 A 20050315

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
EP 1703438	A1	EN	16	4	
Regional Designated States,Original	AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR YU				
JP 2006259922	A	JA	11		

Photographic subject authenticating device. for portable telephone, stops repeated authentication process of photographic object when repeated- authentication stop instructions are determined to be true

[File 348] EUROPEAN PATENTS 1978-2007/ 200708

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*File 348: For important information about IPCR/8 and forthcoming changes to the IC= index, see *HELP NEWSIPCR*.

[File 349] PCT FULLTEXT 1979-2007/UB=20070308UT=20070301

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*File 349: For important information about IPCR/8 and forthcoming changes to the IC= index, see *HELP NEWSIPCR*.

```
; d s
Set      Items  Description
S1      1058049  S IMAG? OR PHOTO OR DIGITAL???() IMAG? OR PICTURE?? OR PHOTOS OR
PHOTOGRAPH?? OR LOGO?? OR ICON?? OR GLYPH?? OR GRAPHIC? OR GRAPHIX OR
PICTOGRAM?? OR PICTOGRAPH?? OR SYMBOL?? OR PATTERN?? OR IMAG??? OR BIT()MAP??
S2      557516  S (WATERMARK?? OR IDENTIFIER OR SYMBOL?? OR BARCODE?? OR MARK??
OR PATTERN?? OR NUMBER(3N)PATTERN?? OR ENCRYPT??? OR EMBED? OR INSCRI? OR
LIGHT()ACTIVATE? OR HIDE? ? OR HIDDEN OR HIDDEN(3N)COD? OR AUTHENTICAT? OR
IMPREGNAT???? OR STEGAN? OR ID OR IDENTIFICATION OR PASSWORD OR PASSCODE?? OR
PASS() (WORD?? OR CODE?? OR INFORMATION OR ENCOD?)) (3N)S1
S3      81304   S (DETECT? OR SENS? OR IDENTIFY OR IDENTIFIES OR FIND??? OR
INDICAT? OR DETERM? OR DISCOVER??? UNCOVER??? OR ILLUMINAT?) (3N)S2
S4      149     S ((INCREAS? OR IMPROV? OR ENHANCE?) (3N) (RESOLUTION OR
QUANTI?)) (20N)S3
S5      266103  S (SET???? OR INITIAT? OR TERMINAT? OR STOP? OR HALT
??? (3N) (TIM??? OR COUNT??? OR ITERAT??? OR PERIOD?? OR INTERVAL?? OR PROCESS?)
S6      4317    S (REPEAT??? OR START??? REINITIAT? OR RECUR? OR BEGIN OR
REPETIT?) (3N)S5
S7      87      S AU=(MIYAKE, N? OR MIYAKE N?)
S8      10      S S4 AND IC=G06K?
S9      5       S S4(40N) (S5 OR S6)
S10     4       S S9 NOT S8
S11     0       S S10 AND IC-G06K?
S12     550     S ((INCREAS? OR IMPROV? OR ENHANCE?) (3N) (RESOLUTION OR
QUANTI?)) (3N)S2
S13     54      S (DETECT? OR SENS? OR IDENTIFY OR IDENTIFIES OR FIND??? OR
INDICAT? OR DETERM?) (3N)S12
S14     0       S S13(3N) (REPEAT??? OR START??? REINITIAT? OR RECUR? OR BEGIN
OR REPETIT?)
S15     3       S S13 AND IC=G06K?
S16     1       S S15 NOT S8
S17     3       S (S6 OR S12 OR S4) AND S7
S18     3       S S17 NOT (S16 OR S8)
S19     19      S S2 AND S7
S20     0       S S19 AND IC=G06K??
S21     1       S S19 AND WATERMARK??
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8/3K/1 (Item 1 from file: 348) [Links](#)

EUROPEAN PATENTS

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02070329

Improved apparatus and method for recognizing pattern data

Verbesserte Vorrichtung und Verfahren zur Erkennung von Musterdaten

Appareil et procede ameliorees de reconnaissance de donnees de motif

Patent Assignee:

- **Samsung Electronics Co., Ltd.;** (7094690)
416 Maetan-dong; Yeongtong-guSuwon-si, Gyeonggi-do; (KR)
(Applicant designated States: all)

Inventor:

- **Song, Gun-Chul**
c/o Samsung Electronics Co., Ltd.416, Maetan-dong; Yeongtong-guSuwon-siGyeonggi-do; (KR)
- **Jang, Jae-Heog**
c/o Samsung Electronics Co., Ltd.416, Maetan-dong; Yeongtong-guSuwon-siGyeonggi-do; (KR)

Legal Representative:

- **Grunecker, Kinkeldey, Stockmair & Schwanhauser Anwaltssozietat (100721)**
Maximilianstrasse 58; 80538 Munchen; (DE)

	Country	Number	Kind	Date	
Patent	EP	1679638	AI	20060712	(Basic)
Application	EP	2006000193		20060105	
Priorities	KR	205001680		20050107	

Designated States:

AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;
FI; FR; GB; GR; HU; IE; IS; IT; LI; LT;
LU; LV; MC; NL; PL; PT; RO; SE; SI; SK;
TR;

Extended Designated States:

AL; BA; HR; MK; YU;

IPC	Level	Value	Position	Status	Version	Action	Source	Office
G06K-0007/14	A	I	F	B	20060101	20060420	H	EP
G06K-0007/14	A	I	F	B	20060101	20060420	H	EP

Abstract Word Count: 92

NOTE: 3

NOTE: Figure number on first page: 3

Type	Pub. Date	Kind	Text
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Publication: English

Procedural: English

Application: English

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200628	642
SPEC A	(English)	200628	2893
Total Word Count (Document A) 3535			
Total Word Count (Document B) 0			
Total Word Count (All Documents) 3535			

Specification: ...FIG. 6 is a detailed flowchart illustrating the above-described process of decreasing the recognition resolution to increase the pattern data recognition rate more by adjusting the pre-set resolution, included in step 302 of recognizing the sensed pattern data as Y, Cb, and Cr data among steps illustrated in FIG. 4. Referring to...

8/3K/2 (Item 2 from file: 348) [Links](#)

EUROPEAN PATENTS

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00738299

Apparatus for and method of determining ridge direction patterns

Gerat und Verfahren zur Bestimmung der Richtung von Rippenmustern

Appareil et methode pour determiner la direction des cretes de formes

Patent Assignee:

- **NEC CORPORATION;** (236690)
7-1, Shiba 5-chome, Minato-ku; Tokyo; (JP)
(Proprietor designated states: all)

Inventor:

- **Kamei, Toshio**
c/o NEC Corp., 7-1, Shiba 5-chome; Minato-ku, Tokyo; (JP)

Legal Representative:

- **Cozens, Paul Dennis et al (72971)**
Mathys & Squire 100 Grays Inn Road; London WC1X 8AL; (GB)

	Country	Number	Kind	Date	
Patent	EP	696012	A2	19960207	(Basic)
	EP	696012	A3	19960424	
	EP	696012	B1	20000503	
Application	EP	95304362		19950621	
Priorities	JP	94138833		19940621	

Designated States:

DE; FR; GB;

International Patent Class (V7): G06K-009/00; G06K-009/00 Abstract Word Count: 57

NOTE: 1

NOTE: Figure number on first page: 1

Type	Pub. Date	Kind	Text
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Publication: English

Procedural: English

Application: English

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200018	645
CLAIMS B	(German)	200018	615
CLAIMS B	(French)	200018	740
SPEC B	(English)	200018	2346
Total Word Count (Document A) 0			
Total Word Count (Document B) 4346			
Total Word Count (All Documents) 4346			

Specification: ...of at least preferred embodiments of the apparatus and method according to invention include:

- determining** ridge direction **patterns** precisely by simple processes with small numbers of operations;
- determining** ridge direction **patterns** wherein **quantization** levels can be **increased** as desired without additional operations;
- determining** ridge direction **patterns** together with confidence for each determined ridge direction.
- determining ridge direction in a subregion...

8/3K/3 (Item 3 from file: 348) [Links](#)

EUROPEAN PATENTS

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00557693

**STORAGE MEDIUM AND APPARATUS FOR RECOVERING INFORMATION FROM SUCH MEDIUM
BY OVERSAMPLING**

Speichermedium und Vorrichtung zur Ruckgewinnung von Data des Mediums durch Uberabtastung
SUPPORT DE STOCKAGE ET APPAREIL POUR EXTRAIRE DES INFORMATIONS DE CE SUPPORT PAR
SURECHANTILLONNAGE

Patent Assignee:

- **DOLBY LABORATORIES LICENSING CORPORATION;** (551630)
100 Potrero Avenue; San Francisco California 94103-4813; (US)
(applicant designated states: AT;BE;CH;DE;DK;ES;FR;GB;IT;LI;NL;SE)

Inventor:

- **SEAGRAVE, Charles, Gordon**
258 Orange Blossom Lane; San Rafael, CA 94903; (US)
- **RICHARDS, Martin, John**
28 Circle Road; Redwood City, CA 94062; (US)
- **MANDELL, Douglas, Evan**
4408 20th Street; San Francisco, CA 94114; (US)
- **ATHERTON, Mark, Leighton**
1331 Crestview Drive; San Carlos, CA 94070; (US)

Legal Representative:

- **Hoffmann, Eckart, Dipl.-Ing. (5571)**
Patentanwalt, Bahnhofstrasse 103; D-82166 Grafelfing; (DE)

	Country	Number	Kind	Date	
Patent	EP	570524	A1	19931124	(Basic)
	EP	570524	B1	19960103	
	WO	9214239		19920820	
Application	EP	92907077		19920204	
	WO	92US898		19920204	
Priorities	US	650571		19910204	
	US	710174		19910604	

Designated States:

AT; BE; CH; DE; DK; ES; FR; GB; IT; LI;
NL; SE;

International Patent Class (V7): G11B-007/00; G11B-020/00; G06K-007/10; ; ...G06K-007/10

NOTE: No A-document published by EPO

Type	Pub. Date	Kind	Text
Publication: English			
Procedural: English			
Application: English			

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPAB96	907
CLAIMS B	(German)	EPAB96	827
CLAIMS B	(French)	EPAB96	1077
SPEC B	(English)	EPAB96	16428
Total Word Count (Document A) 0			
Total Word Count (Document B) 19239			
Total Word Count (All Documents) 19239			

Specification: ...in the nature of reconstruction filtering or image enhancement, may be applied as needed to improve the resolution of the two-dimensional image representation so that it is suitable for locating the symbols and

determining, within a desired accuracy, the digital value of the digital ...from the present invention. 2. Reconstruction Filter

After the position of one or more alignment **patterns** has been **determined**, the reconstruction filter 62 **increases** the **resolution** of the image representation in the neighborhood of each fixel by applying a two-dimensional...

8/3K/4 (Item 4 from file: 348) [Links](#)

EUROPEAN PATENTS

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00441086

Improved pel resolution addressing conversion.

Adressenwandlung zur erweiterten Punktauflösung.

Conversion d'adressage amelioree de resolution de pixel.

Patent Assignee:

- **International Business Machines Corporation;** (200120)
Old Orchard Road; Armonk, N.Y. 10504; (US)
(applicant designated states: DE;FR;GB)

Inventor:

- **Kantor, Sherwood**
4857 Fairlawn Circle; Boulder, Colorado 80301; (US)

Legal Representative:

- **Schuffenecker, Thierry (69981)**
Compagnie IBM France, Departement de Propriete Intellectuelle; F-06610 La Gaude; (FR)

	Country	Number	Kind	Date	
Patent	EP	412034	A2	19910206	(Basic)
	EP	412034	A3	19920624	
	EP	412034	B1	19950816	
Application	EP	90480081		19900605	
Priorities	US	389453		19890804	

Designated States:

DE; FR; GB;

International Patent Class (V7): H04N-001/40; G06K-015/02; ; ...G06K-015/02 **Abstract** ...Enhancement of text characters when converted to a higher resolution without degrading imbedded halftone images. **Enhancement** at the higher **resolution** is **determined** by comparing predetermined **patterns** to individual lower resolution pels and surrounding pels. The predetermined patterns are selected as occurring ...

Abstract Word Count: 53

Type	Pub. Date	Kind	Text
Publication: English			
Procedural: English			
Application: English			

Available Text	Language	Update	Word Count
Total Word Count (Document A)			
Total Word Count (Document B)			
Total Word Count (All Documents)			

8/3K/5 (Item 5 from file: 348) [Links](#)

EUROPEAN PATENTS

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00241456

Compensation for fine line prints.

Kompensation beim Drucken feiner Striche.

Compensation pour l'impression de lignes fines.

Patent Assignee:

- **International Business Machines Corporation;** (200120)
Old Orchard Road; Armonk, N.Y. 10504; (US)
(applicant designated states: DE;FR;GB;IT)

Inventor:

- **Kantor, Sherwood (NMI)**
4857 Fairlawn Circle; Boulder Colorado 80301; (US)
- **Selby, Garry Joe**
1634 Albion Lane; Longmont Colorado 80501; (US)
- **Wolfe, Larry Lance**
2919 West 11th Avenue Circle; Broomfield Colorado 80020; (US)

Legal Representative:

- **Schuffenecker, Thierry (69981)**
Compagnie IBM France, Departement de Propriete Intellectuelle; F-06610 La Gaude; (FR)

	Country	Number	Kind	Date	
Patent	EP	246457	A2	19871125	(Basic)
	EP	246457	A3	19890823	
	EP	246457	B1	19920708	
Application	EP	87105871		19870422	
Priorities	US	864985		19860520	

Designated States:

DE; FR; GB; IT;

International Patent Class (V7): G06K-015/12; G03G-015/00; H04N-001/40; ; G06K-015/12... **Abstract Word Count:** 178

Type	Pub. Date	Kind	Text
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Publication: English

Procedural: English

Application: English

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	1552
CLAIMS B	(German)	EPBBF1	892
CLAIMS B	(French)	EPBBF1	968
SPEC B	(English)	EPBBF1	5934
Total Word Count (Document A) 0			
Total Word Count (Document B) 9346			
Total Word Count (All Documents) 9346			

Specification: ...to as the '264 patent in the rest of the text) describes fine line print **enhancement which identifies** selected locations using **pattern** recognition techniques, and has the capability of widening fine lines, both parallel to and perpendicular...

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00161466

Apparatus for proximity detection of an opaque pattern on a translucent substrate.

Apparat zur Annäherungsabstastung eines undurchsichtigen Musters auf einem durchscheinenden Trager.

Appareil pour la detection rapprochee d'un motif opaque sur un support translucide.

Patent Assignee:

- **International Business Machines Corporation;** (200120)
Old Orchard Road; Armonk, N.Y. 10504; (US)
(applicant designated states: DE;FR;GB)

Inventor:

- **Goodman, Douglas Seymore**
2616 Darnley Place; Yorktown Heights New York 10598; (US)

Legal Representative:

- **Ekstrom, Gosta E. (22691)**
IBM Svenska AB Intellectual Property Department; S-163 92 Stockholm; (SE)

	Country	Number	Kind	Date	
Patent	EP	166881	A2	19860108	(Basic)
	EP	166881	A3	19880921	
	EP	166881	B1	19901024	
Application	EP	85104680		19850419	
Priorities	US	626366		19840629	

Designated States:

DE; FR; GB;

International Patent Class (V7): G06K-007/10; H04N-001/028; ; G06K-007/10... Abstract ...between a rear illuminated opaque pattern (12) on a translucent substrate (24) and an optical **pattern sensing** device (22) viewing the shadow image of the opaque pattern is increased without any corresponding loss of resolution (and/or **resolution** may be **increased** without any corresponding reduction in the physical separation between the optical **pattern sensing** device and the opaque pattern) by positioning a narrow spectral band pass interference filter (30...

Abstract Word Count: 117

Type	Pub. Date	Kind	Text
Publication: English			
Procedural: English			
Application: English			

Available Text	Language	Update	Word Count
Total Word Count (Document A)			
Total Word Count (Document B)			
Total Word Count (All Documents)			

8/3K/7 (Item 1 from file: 349) [Links](#)

PCT FULLTEXT

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00971402

IMAGE BASED OBJECT IDENTIFICATION

IDENTIFICATION D'OBJETS SUR LA BASE D'IMAGES

Patent Applicant/Patent Assignee:

- **EMBLAZE SYSTEMS LTD**; 22 Zarchin Street, P.O. Box 2220, Industrial Zone, 43662 Ra'anana
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Legal Representative:

- **EMBLAZE SYSTEMS LTD(commercial rep.)**
c/o Mandir, William, H., Sughrue Mion, PLLC, Suite 800, 2100 Pennsylvania Ave., N.W., Washington, DC
20037-3213; US;

	Country	Number	Kind	Date
Patent	WO	200301435	A1	20030103
Application	WO	20021B3352		20020621
Priorities	US	2001299734		20010622

Designated States: (All protection types applied unless otherwise stated - for applications 2004+).

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Main International Patent Classes (Version 7):

IPC	Level
G06K-009/00	Main

Publication Language: English
Filing Language: English
Fulltext word count: 10776

Detailed Description:

...in video frame rate, allowing the algorithm to choose the frame most suitable for the **detection** of the **barcode** digits.

(1) **Image Enhancement Algorithms.**

[147] These functions are a family of image processing functions required in order to **improve** contrast and **resolution**, for other image processing algorithms.

(2) **Finding Barcode Areas in the image**

[148] The image is divided into square regions, 3202 pixels in size. On each of...

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00909145

**PLANAR LASER ILLUMINATION AND IMAGING (PLIIM) SYSTEMS WITH INTEGRATED
DESPECKLING MECHANISMS PROVIDED THEREIN**
SYSTEMES PLIIM D'ILLUMINATION ET D'IMAGERIE AU LASER PLANAIRE A MECANISME DE
DECHATOIEMENT INTEGRE

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- **VAN Tassel John E Jr**; 8 Arbor Lane, Winchester, MA 01890
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	Country	Number	Kind	Date
Patent	WO	200243195	A2-A3	20020530
Application	WO	2001US44011		20011121
Priorities	US	2000721885		20001124
	US	2001780027		20010209
	US	2001781665		20010212
	US	2001883130		20010615
	US	2001954477		20010917
	US	2001999687		20011031

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Main International Patent Classes (Version 7):

IPC	Level
G06K-007/10	Main
G06K-007/14... ..G06K-007/00	

Publication Language: English
Filing Language: English
Fulltext word count: 298301

Claims:

...1111A, the following parameters will influence the number of substantially different time-varying speckle-noise patterns generated at the **image detection** array during each photo-integration time period thereof: (i) the spatial period of the spatial...

POSITION INFORMATION
INFORMATION DE POSITION

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(Designated only for: US)

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Box 45086, S-104 30 Stockholm; SE;

	Country	Number	Kind	Date
Patent	WO	200171643	A1	20010927
Application	WO	2001SE608		20010321
Priorities	SE	2000949		20000321

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML;
MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Main International Patent Classes (Version 7):

IPC	Level
G06K-001/12	Main
G06K-011/18...	

Publication Language: English
Filing Language: English
Fulltext word count: 7850

Detailed Description:

...as the adjoining positions. The floating coding is advantageous since it makes it possible to increase the position resolution.

Furthermore, it is possible to reduce the relationship between, on the one hand, the number of symbols which a position-determining device must register in order to be able to carry out a position determination reliably...

8/3K/10 (Item 4 from file: 349) [Links](#)

PCT FULLTEXT

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00217014

STORAGE MEDIUM AND APPARATUS AND METHOD FOR RECOVERING INFORMATION FROM SUCH MEDIUM BY OVERSAMPLING

SUPPORT DE STOCKAGE ET APPAREIL ET PROCEDE POUR EXTRAIRE DES INFORMATIONS DE CE SUPPORT PAR SURECHANTILLONNAGE

Patent Applicant/Patent Assignee:

• **DOLBY LABORATORIES LICENSING CORPORATION;**

;;

• **SEAGRAVE Charles Gordon;**

;;

• **RICHARDS Martin John;**

;;

• **MANDELL Douglas Evan;**

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• **ATHERTON Mark Leighton;**

;;

	Country	Number	Kind	Date
Patent	WO	9214239	A1	19920820
Application	WO	92US898		19920204
Priorities	US	91571		19910204
	US	91174		19910604

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

Main International Patent Classes (Version 7):

IPC	Level
...G06K-07:10	

Publication Language: English

Filing Language:

Fulltext word count: 17578

Detailed Description:

...in the nature of reconstruction filtering or image enhancement, may be applied as needed to **improve the resolution** of the two-dimensional image representation so that it is suitable for locating the **symbols** and **determining**, within a desired accuracy, the digital value of the digital information which they represent. The...from the present invention.

2. Reconstruction Filter

After the position of one or more alignment **patterns** has been **determined**, the reconstruction filter 62 **increases the resolution** of the image representation in the neighborhood of each fixel by applying a two35 dimensional...

16/3K/1 (Item 1 from file: 348) [Links](#)

EUROPEAN PATENTS

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00281392

OPTICAL SCANNER INCLUDING POSITION SENSORS.
OPTISCHE ABTASTVORRICHTUNG MIT ORTUNGSFUHLERN.
LECTEUR OPTIQUE EQUIPE DE CAPTEURS DE POSITION.

Patent Assignee:

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Inventor:

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Legal Representative:

- **Powell, Stephen David et al (52311)**
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	Country	Number	Kind	Date	
Patent	EP	277964	A1	19880817	(Basic)
	EP	277964	A1	19900321	
	EP	277964	B1	19930414	
	WO	8800712		19880128	
Application	EP	87904768		19870702	
	WO	87US1582		19870702	
Priorities	US	889130		19860723	

Designated States:

DE; FR; GB; IT;

International Patent Class (V7): G01V-009/04; G06K-011/06; H04N-001/10; ; ...G06K-011/06

NOTE: No A-document published by EPO

Type	Pub. Date	Kind	Text
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Publication: English

Procedural: English

Application: English

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	472
CLAIMS B	(German)	EPBBF1	484
CLAIMS B	(French)	EPBBF1	516
SPEC B	(English)	EPBBF1	3714
Total Word Count (Document A) 0			
Total Word Count (Document B) 5186			
Total Word Count (All Documents) 5186			

Specification: ...Plurality of sensors 208 are spaced slightly differently than lines 210. Because of this, a **pattern** is created which **enhances** the **resolution** achieved by **sensors 208**. This can best be understood with reference to Figure 9a and 9b

18/3K/1 (Item 1 from file: 348) [Links](#)

EUROPEAN PATENTS

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01346332

Image forming apparatus, control method thereof, image forming method, and storage medium

Bilderzeugungsgerat, Steuerverfahren dafur, Bilderzeugungsverfahren und Speichermedium

Dispositif de formation d'image, procede de commande pour ce dispositif, procede de formation d'image et support

d'enregistrement

Patent Assignee:

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	Country	Number	Kind	Date	
Patent	EP	1150490	A2	20011031	(Basic)
	EP	1150490	A3	20050209	
Application	EP	2001102324		20010201	
Priorities	JP	200025270		20000202	

Designated States:

DE; FR; GB; IT;

Extended Designated States:

AL; LT; LV; MK; RO; SI;

International Patent Class (V7): H04N-001/32**Abstract Word Count:** 82

NOTE: 1

NOTE: Figure number on first page: 1

Type	Pub. Date	Kind	Text
Publication: English			
Procedural: English			
Application: English			

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200144	3513
SPEC A	(English)	200144	30265

Total Word Count (Document A) 33778
Total Word Count (Document B) 0
Total Word Count (All Documents) 33778

Specification: ...returned to the first insert bin to gather the second copy. The above operation is **repeated** certain times corresponding to the set number of copies. This is the sheet feed method from the inserter in the S...

18/3K/2 (Item 2 from file: 348) [Links](#)

EUROPEAN PATENTS

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00673119

Image processing apparatus

Bildverarbeitungsvorrichtung

Appareil de traitement d'images

Patent Assignee:

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Inventor:

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Legal Representative:

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	Country	Number	Kind	Date	
Patent	EP	645736	A2	19950329	(Basic)
	EP	645736	A3	19951102	
	EP	645736	B1	20030205	
Application	EP	94306991		19940926	
Priorities	JP	93239993		19930927	
	JP	93244737		19930930	
	JP	93244958		19930930	

Designated States:

DE; FR; GB;

International Patent Class (V7): G06T-003/40Abstract Word Count: 131

NOTE: 1

NOTE: Figure number on first page: 1

Type	Pub. Date	Kind	Text
Publication: English			
Procedural: English			
Application: English			
Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB95	1297
SPEC A	(English)	EPAB95	14098
CLAIMS B	(English)	200306	760
CLAIMS B	(German)	200306	685

CLAIMS B	(French)	200306	902
SPEC B	(English)	200306	13998
Total Word Count (Document A) 15399			
Total Word Count (Document B) 16345			
Total Word Count (All Documents) 31744			

Specification: ...of times equivalent to the number of passes, which is set in advance. When this **processing** is repeated the set number of passes, the switch 301 is connected to terminal A so that the enlarged ...

Specification: ...of times equivalent to the number of passes, which is set in advance. When this **processing** is repeated the set number of passes, the switch 301 is connected to terminal A so that the enlarged ...

18/3K/3 (Item 3 from file: 348) [Links](#)

EUROPEAN PATENTS

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00338765

Original handling apparatus.

Original-Zufuhrvorrichtung.

Appareil d'amenée de documents.

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	Country	Number	Kind	Date	
Patent	EP	333107	A2	19890920	(Basic)
	EP	333107	A3	19900509	
	EP	333107	B1	19931208	
Application	EP	89104434		19890313	
Priorities	JP	8860107		19880314	
	JP	8860108		19880314	
	JP	8860109		19880314	
	JP	88118591		19880516	

	JP	88118592		19880516	
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Designated States:

DE; FR; GB; IT;

International Patent Class (V7): G03G-015/00; G03B-027/62; **Abstract Word Count:** 68

Type	Pub. Date	Kind	Text
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Publication: English

Procedural: English

Application: English

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	868
CLAIMS B	(German)	EPBBF1	768
CLAIMS B	(French)	EPBBF1	940
SPEC B	(English)	EPBBF1	8489
Total Word Count (Document A) 0			
Total Word Count (Document B) 11065			
Total Word Count (All Documents) 11065			

Specification: ...must be performed at least once. For this reason, as the number of times of **repetition** of conveying and **stopping** is increased, even if stop position control of the conveyor belt can be smoothly performed...

21/3K/1 (Item 1 from file: 348) [Links](#)

EUROPEAN PATENTS

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01273167

Image processing apparatus and method, and storage medium therefor

Bildverarbeitungsvorrichtung und -Verfahren, und Speichermedium dafür

Dispositif et procede de traitement d'image, et support d'enregistrement pour ceci

Patent Assignee:

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(Applicant designated States: all)

Inventor:

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- **Miyake, Nobutaka...**
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Legal Representative:

- **Beresford, Keith Denis Lewis et al (28273)**
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	Country	Number	Kind	Date	
Patent	EP	1096782	A2	20010502	(Basic)
	EP	1096782	A3	20020417	
Application	EP	2000309193		20001018	
Priorities	JP	99304353		19991026	

Designated States:

DE; FR; GB; IT;

Extended Designated States:

AL; LT; LV; MK; RO; SI;

International Patent Class (V7): H04N-001/32; H04N-001/00 **Abstract** ...information for the purpose of being printed out has been entered, whether or not the **image** information contains a **mark image** such as a **watermark** is determined to such an extent that will not lower the throughput of a printer...

Abstract Word Count: 102

NOTE: 4

NOTE: Figure number on first page: 4

Type	Pub. Date	Kind	Text
Publication: English			
Procedural: English			
Application: English			

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200118	775
SPEC A	(English)	200118	4485
Total Word Count (Document A) 5260			
Total Word Count (Document B) 0			
Total Word Count (All Documents) 5260			

Specification: ...and storage medium for determining whether image information contains a specific mark such as a **watermark**. **BACKGROUND OF THE INVENTION**

Research for multiplexing image information with other image-related information is being conducted extensively. There is continuing standardization of a technique referred to as an electronic- **watermark** technique through which **image** information representing a photograph or picture, etc., is multiplexed with additional information, such as the... and the multiplexed images are distributed over a network such as the Internet. Such a **watermark** often is used primarily for the purpose of copyright protection.

Another field of application is... input/output devices such as copiers, scanners and printers. For example, a special mark or **watermark** is multiplexed with a banknote, stamp or security in advance. When the mark is sensed... makes it impossible to use a printed copy unlawfully.

An example of embedding of a **watermark** will be described with reference to Fig. 5. This illustrates an example of an electronic... region in actual space by inverse orthogonal transform processing 503. Image information in which the **watermark** has been embedded is thus obtained. In a case where the **watermark** is used in a banknote, stamp or security, a transition is made to print processing ... however, have a number of problems.

Specifically, with the above-described method of detecting a **watermark**, processing such as orthogonal transformation requires a great deal of image memory and processing time... circles or the detection of a banknote, stamp or security, matching with a pre-registered **pattern** is evaluated. As with the **watermark**, a great deal of image memory and processing time are required.

A major factor in... methods is that the purpose is to detect whether or not an embedded mark or **watermark** exists. That is, since these methods are premised on the fact that a mark or **watermark** has already been **embedded** in all **image** information, not that much processing time is required if only the type of mark is... of items of information to undergo detection processing does not contain an embedded mark or **watermark**. In other words, an enormous amount of time is needed to prove reliably that image information that is entirely free of an embedded mark or **watermark** has no embedded **watermark**. Further, in order to prove reliably that no mark or **watermark** has been embedded, it is necessary to execute detection processing a plurality of times and... that will not lower the throughput of a printer, whether the image information contains an **image** such as a **watermark**.

According to the present invention, the foregoing object is attained by providing an image processing... by comprising: input means for inputting image information; determination means for determining whether an input **image** contains a **mark** indicative of a specific image; setting means for setting allowable time necessary for the determination... by the determination means in a case where it cannot be determined whether the input **image** contains the **mark** within the allowable time set by the setting means.

Other features and advantages of the... an example of demultiplexing; and

Fig. 7 is a diagram illustrating an example of registered **patterns** according to an embodiment of the present invention.

DESCRIPTION OF THE PREFERRED EMBODIMENT

A preferred...e., 1/8) is sampled in regard to both the horizontal and vertical magnifications.

Next, **pattern** matching is executed with regard to individual **patterns** registered in advance. It is required that the registered **patterns** be specific **mark patterns** that can identify a banknote, stamp or security, etc. In matching processing, a registered **pattern** also is changed in conformity with the subsampling rate as a manner of course. **Patterns** of a plurality of marks per $2n/8$ ($n = 0, 1, 2, 3$) subsamplings have... in accordance with the value of n .

Next, at step S304, the rate at which **pattern** matches are achieved is compared with a threshold value $TH(n)$ set in advance. The... storage device such as a hard disk in advance on a per-subsampling basis.

In **pattern** matching, decision processing is executed to successively determine whether the value of a subsampled pixel and pixels of a certain one **mark** of the **patterns** in Fig. 7 match. However, a predetermined allowable range is provided. More specifically, letting P_i ... pixel of a print image and Q_1) the value of a pixel in a registered **pattern**, it is decided that a match with the value of a pixel of interest matches... a predetermined value.

The match rate (the rate at which a match with a registered **pattern** is achieved) can be determined using various evaluation functions, e.g., the ratio of number... match rate exceeds the threshold value ("YES" at step 304), it is judged that the **pattern** is the specific **pattern** at step S307 and processing is exited. If the match rate is equal to or... answer is "YES", control returns to step S302, the subsampling rate is changed, the next **pattern** group is selected as the object of **pattern** matching and **pattern** matching processing is repeated.

According to this embodiment, processing is repeated until the subsampling magnification... exceed the threshold value even at such time, then it is judged that a specific **pattern** is absent at step S308.

Fig. 4 is a flowchart illustrating the relationship between a...present. The example of the flowchart shown in Fig. 3 is such that if a **mark** exists in an **image**, the rate at which **pattern** matching is judged to have been attained is high even with a coarsely subsampled image... of repetitions.

This holds true not only for visible marks but also for detection of **watermarks**. If an **image** contains a **watermark**, this can be clarified instantly by the initial loop (the loop for which $n = 0$ holds). If an **image** does not contain a **watermark**, processing time is prolonged. If, say, a frequency region is used for the embedding of a **watermark**, processing time becomes much longer in comparison with a case where a region of actual... processing, this processing will end within the time limit when a mark (inclusive of a **watermark**) is present. As a result, the mark can be detected at a high probability. In... forth above, a very large number of items of information do not contain a specific **mark**. The printing of **image** information containing an **embedded** specific mark is an act performed by some users with unlawful intentions. For the vast... which it is determined whether image data to be printed contains an **image** (a visible **image** or a visible **watermark**) that matches the registered **image** of a **mark**. However, the invention may be applied to a case where an **image** to be printed contains an invisible **watermark**. In such case an orthogonal transform would be applied in, e.g., units of (8×8) that will not lower the throughput of a printer, whether the **image** information contains an **image** such as a **watermark**.

As many apparently widely different embodiments of the present invention can be made without departing...

Claims: ...by comprising:

input means for inputting **image** information;

determination means for determining whether an input **image** contains a **mark** indicative of a specific **image**;

setting means for setting allowable time necessary for the determination... by said determination means in a case where it cannot be determined whether the input **image** contains the **mark** indicative of a specific **image** within the allowable time set by said setting means.

2 ... The apparatus according to claim 1, characterized in that the **mark** indicative of a specific **image** includes a **watermark**.

11. A host computer incorporating the **image** processing apparatus set forth in claim 1.

12... **image** information;


a determination step of determining whether an **image** obtained by subsampling the input **image** contains a **mark** indicative of a specific **image**;

a setting step of setting allowable time necessary for the... at said determination step in a case where it cannot be determined whether the input **image** contains the **mark** indicative of a specific **image** within the allowable time set at said setting means.

14 ... code of a determination step of determining whether an **image** obtained by subsampling the input **image** contains a **mark** indicative of a specific **image**;

program code of a setting step of setting allowable time... ..at said determination step in a case where it cannot be determined whether the input image contains the **mark** indicative of a specific image within the allowable time set at said setting means.

Day : Monday
Date: 3/12/2007


PALM INTRANET

Time: 16:17:35

Inventor Name Search Result

Your Search was:

Last Name = MIYAKE

First Name = NOBUTAKA

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<u>07738562</u>	Not Issued	166	07/31/1991	A METHOD AND APPARATUS FOR COMPRESSING AND STORING DATA INDICATIVE OF A FULL-COLOR IMAGE	MIYAKE, NOBUTAKA
<u>07828709</u>	Not Issued	166	01/31/1992	IMAGE COMPRESSING APPARATUS AND THE METHOD	MIYAKE, NOBUTAKA
<u>07872988</u>	<u>5818970</u>	250	04/24/1992	IMAGE ENCODING APPARATUS	MIYAKE, NOBUTAKA
<u>07942850</u>	<u>5822462</u>	150	09/10/1992	IMAGE PROCESSING APPARATUS	MIYAKE, NOBUTAKA
<u>08083969</u>	Not Issued	166	06/29/1993	IMAGE ENCODING METHOD AND APPARATUS	MIYAKE, NOBUTAKA
<u>08112376</u>	Not Issued	166	08/27/1993	IMAGE PROCESSING APPARATUS FOR TRANSMITTING COMPRESSED AREA INFORMATION TO BE USED IN EDITING	MIYAKE, NOBUTAKA
<u>08280584</u>	<u>6198848</u>	150	07/26/1994	METHOD AND APPARATUS FOR COMPRESSING AND STORING DATA INDICATIVE OF A FULL-COLOR IMAGE	MIYAKE, NOBUTAKA
<u>08311560</u>	Not Issued	166	09/23/1994	IMAGE PROCESSING APPARATUS	MIYAKE, NOBUTAKA
<u>08322164</u>	<u>5760921</u>	150	10/13/1994	METHOD OF AND APPARATUS FOR IMAGE PROCESSING	MIYAKE, NOBUTAKA
<u>08329408</u>	Not Issued	166	10/27/1994	IMAGE PROCESSING METHOD AND APPARATUS	MIYAKE, NOBUTAKA
<u>08334031</u>	<u>6546145</u>	150	11/02/1994	IMAGE COMPRESSION USING SELECTION OF	MIYAKE, NOBUTAKA

				QUANTIZATION METHOD	
<u>08425768</u>	<u>6553143</u>	150	04/20/1995	IMAGE ENCODING METHOD AND APPARATUS	MIYAKE, NOBUTAKA
<u>08542865</u>	<u>6088489</u>	150	10/13/1995	IMAGE DATA RESOLUTION CONVERSION	MIYAKE, NOBUTAKA
<u>08675415</u>	<u>5729625</u>	150	07/02/1996	IMAGE PROCESSING METHOD AND APPARATUS WHICH EXPAND A PIXEL INTO MULTIPLE PIXELS WITH A CHANGE IN THE NUMBER OF GRAY LEVELS	MIYAKE, NOBUTAKA
<u>08691588</u>	<u>6415065</u>	150	08/02/1996	IMAGE PROCESSING APPARATUS AND METHOD THEREFOR	MIYAKE, NOBUTAKA
<u>08715116</u>	<u>5917963</u>	150	09/17/1996	IMAGE PROCESSING APPARATUS AND IMAGE PROCESSING METHOD	MIYAKE, NOBUTAKA
<u>08792119</u>	<u>5875268</u>	150	01/31/1997	IMAGE PROCESSING WITH LOW-RESOLUTION TO HIGH-RESOLUTION CONVERSION	MIYAKE, NOBUTAKA
<u>08847760</u>	<u>6009213</u>	150	04/23/1997	IMAGE PROCESSING APPARATUS AND METHOD	MIYAKE, NOBUTAKA
<u>08865975</u>	<u>6459498</u>	150	05/30/1997	DATA TRANSMISSION METHOD AND APPARATUS THAT DISCRIMINATES WHETHER DATA IS TO BE DEVELOPED INTO BITMAP DATA	MIYAKE, NOBUTAKA
<u>08869225</u>	<u>6597467</u>	150	06/04/1997	IMAGE PROCESSING APPARATUS FOR TRANSMITTING COMPRESSED AREA INFORMATION TO BE USED AT EDITING	MIYAKE, NOBUTAKA
<u>08916922</u>	<u>5911007</u>	150	08/22/1997	IMAGE PROCESSING METHOD AND APPARATUS	MIYAKE, NOBUTAKA
<u>09217131</u>	<u>6400413</u>	150	12/21/1998	IMAGE PROCESS APPARATUS IMAGE PROCESS METHOD AND COMPUTER-READABLE STORAGE MEDIUM	MIYAKE, NOBUTAKA
<u>09434378</u>	<u>6804419</u>	150	11/08/1999	IMAGE PROCESSING METHOD AND APPARATUS	MIYAKE, NOBUTAKA
<u>09535545</u>	<u>6750983</u>	150	03/27/2000	IMAGE PROCESSING APPARATUS AND METHOD, AND STORAGE MEDIUM	MIYAKE, NOBUTAKA

<u>09537688</u>	Not Issued	161	03/29/2000	Image processing apparatus and method	MIYAKE, NOBUTAKA
<u>09575243</u>	<u>6714693</u>	150	05/22/2000	IMAGE PROCESSING APPARATUS AND IMAGE PROCESSING METHOD	MIYAKE, NOBUTAKA
<u>09671623</u>	Not Issued	51	09/28/2000	IMAGE PROCESSING APPARATUS AND METHOD, AND STORAGE MEDIUM	MIYAKE, NOBUTAKA
<u>09694002</u>	Not Issued	30	10/23/2000	Image processing apparatus, method and storage medium therefor	MIYAKE, NOBUTAKA
<u>09711510</u>	Not Issued	160	11/14/2000	Image processing apparatus, method and memory medium therefor	MIYAKE, NOBUTAKA
<u>09711956</u>	<u>7058232</u>	150	11/15/2000	IMAGE PROCESSING APPARATUS, METHOD AND MEMORY MEDIUM THEREFOR	MIYAKE, NOBUTAKA
<u>09715116</u>	<u>6915014</u>	150	11/20/2000	IMAGE PROCESSING APPARATUS AND METHOD	MIYAKE, NOBUTAKA
<u>09774586</u>	<u>6853736</u>	150	02/01/2001	IMAGE PROCESSING APPARATUS, IMAGE PROCESSING METHOD AND STORAGE MEDIUM	MIYAKE, NOBUTAKA
<u>09900033</u>	Not Issued	160	07/09/2001	Image processor unit, image processing method, and storage medium	MIYAKE, NOBUTAKA
<u>09970048</u>	<u>6909524</u>	150	10/02/2001	IMAGE PROCESSOR WHICH CAN ADD PREDETERMINED INFORMATION TO AN IMAGE WHILE MINIMIZING IMAGE-QUALITY DEGRADATION, AND METHODS THEREFOR	MIYAKE, NOBUTAKA
<u>10163616</u>	Not Issued	71	06/07/2002	Image processing apparatus and its control method, computer program, and storage medium	MIYAKE, NOBUTAKA
<u>10170358</u>	<u>7116826</u>	150	06/14/2002	EMBEDDING WITH ERROR-CORRECTION ENCODING	MIYAKE, NOBUTAKA
<u>10244016</u>	<u>7079267</u>	150	09/16/2002	IMAGE PROCESSING APPARATUS, METHOD, COMPUTER PROGRAM AND RECORDING MEDIUM	MIYAKE, NOBUTAKA
<u>10246536</u>	<u>7072522</u>	150	09/19/2002	IMAGE PROCESSING APPARATUS AND METHOD	MIYAKE, NOBUTAKA

10247519	Not Issued	71	09/20/2002	Image processing apparatus and method	MIYAKE, NOBUTAKA
10252702	7171019	150	09/24/2002	IMAGE PROCESSING APPARATUS AND IMAGE PROCESSING METHOD	MIYAKE, NOBUTAKA
10252720	6824240	150	09/24/2002	IMAGE PROCESSING APPARATUS AND METHOD AND RECORDING MEDIUM	MIYAKE, NOBUTAKA
10255645	7187476	150	09/27/2002	IMAGE PROCESSING APPARATUS AND METHOD, COMPUTER PROGRAM, AND RECORDING MEDIUM	MIYAKE, NOBUTAKA
10446723	Not Issued	41	05/29/2003	Image processing apparatus, image processing method, and computer program	MIYAKE, NOBUTAKA
10462704	Not Issued	71	06/17/2003	Image processing apparatus and control method thereof	MIYAKE, NOBUTAKA
10601772	7103214	150	06/24/2003	IMAGE PROCESSING APPARATUS AND METHOD	MIYAKE, NOBUTAKA
10754524	6954542	150	01/12/2004	IMAGE PROCESSING APPARATUS AND METHOD	MIYAKE, NOBUTAKA
10981669	Not Issued	30	11/05/2004	Image processor unit, image processing method, and storage medium	MIYAKE, NOBUTAKA
11297417	7177463	150	12/09/2005	IMAGE PROCESSING APPARATUS AND METHOD	MIYAKE, NOBUTAKA
11561552	Not Issued	20	11/20/2006	IMAGE PROCESSING APPARATUS AND METHOD, COMPUTER PROGRAM, AND RECORDING MEDIUM	MIYAKE, NOBUTAKA

Inventor Search Completed: No Records to Display.

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